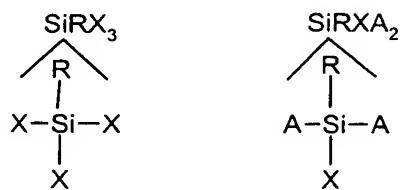


FIGURE 1: REPRESENTATIVE ORGANOSILANES



R = functional group of chemical interest  
A = non-reactive group  
X = hydrolyzable group

FIGURE 2: HYDROLYSIS OF AN ORGANOSILANE TO PRODUCE AN ORGANOSILANOL

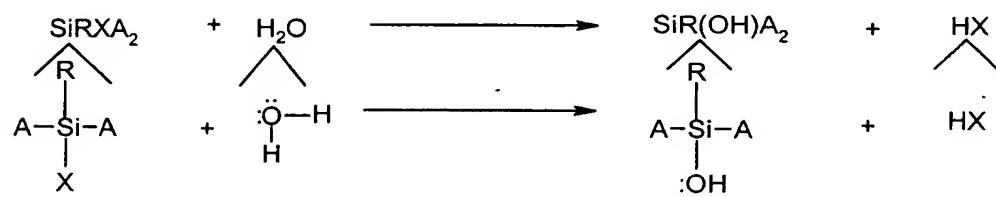


FIGURE 3: SILANOL CONDENSATION REACTION

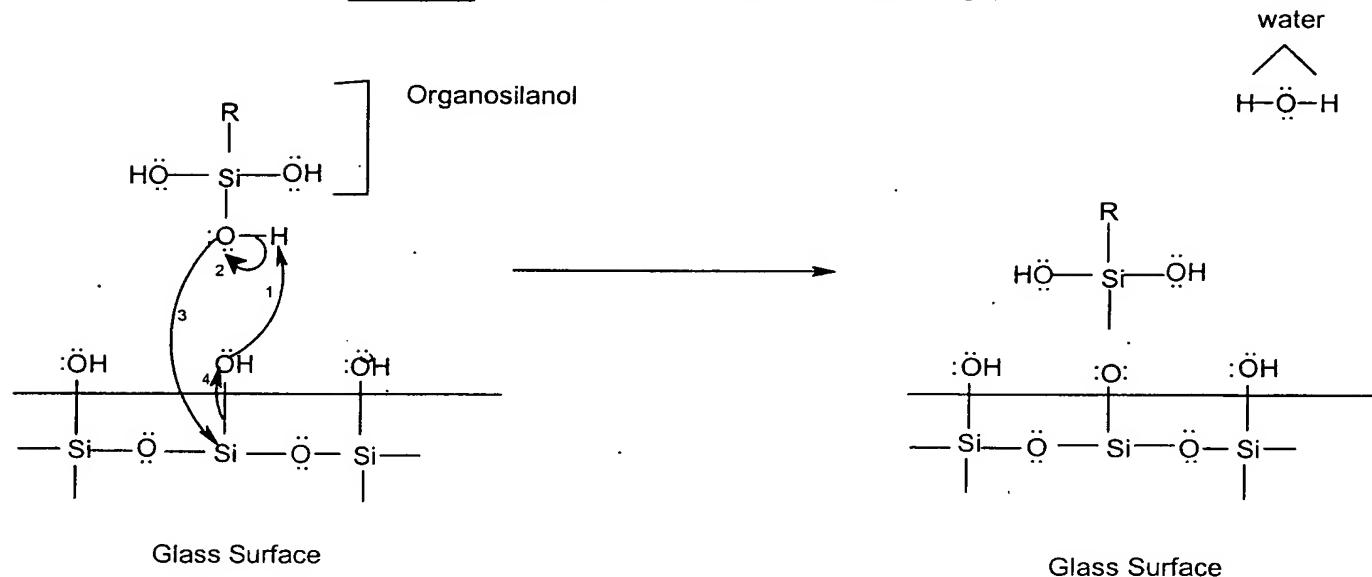
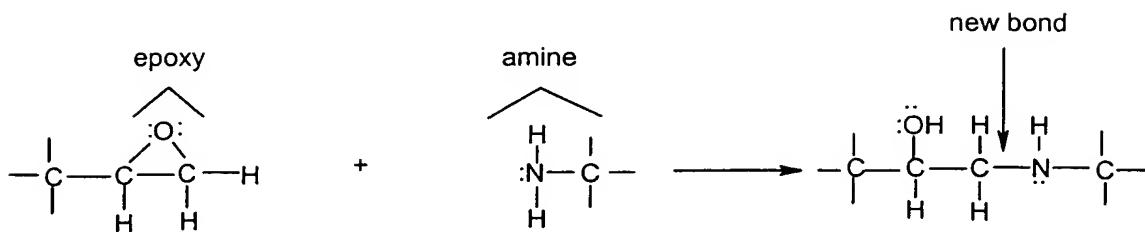
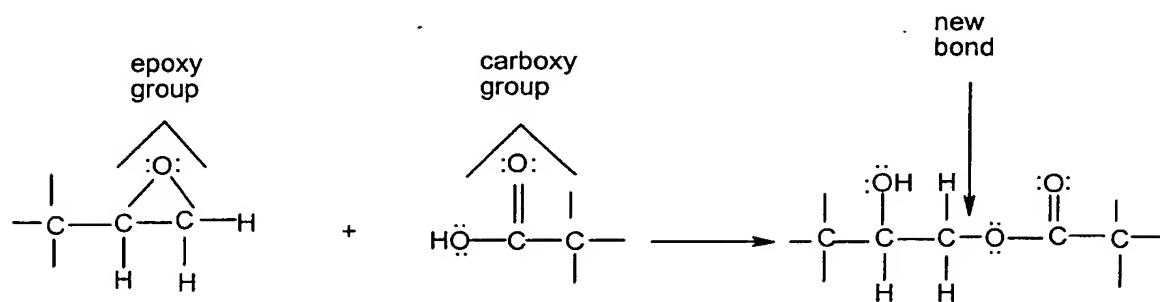


FIGURE 4: REACTIONS OF EPOXY GROUPS

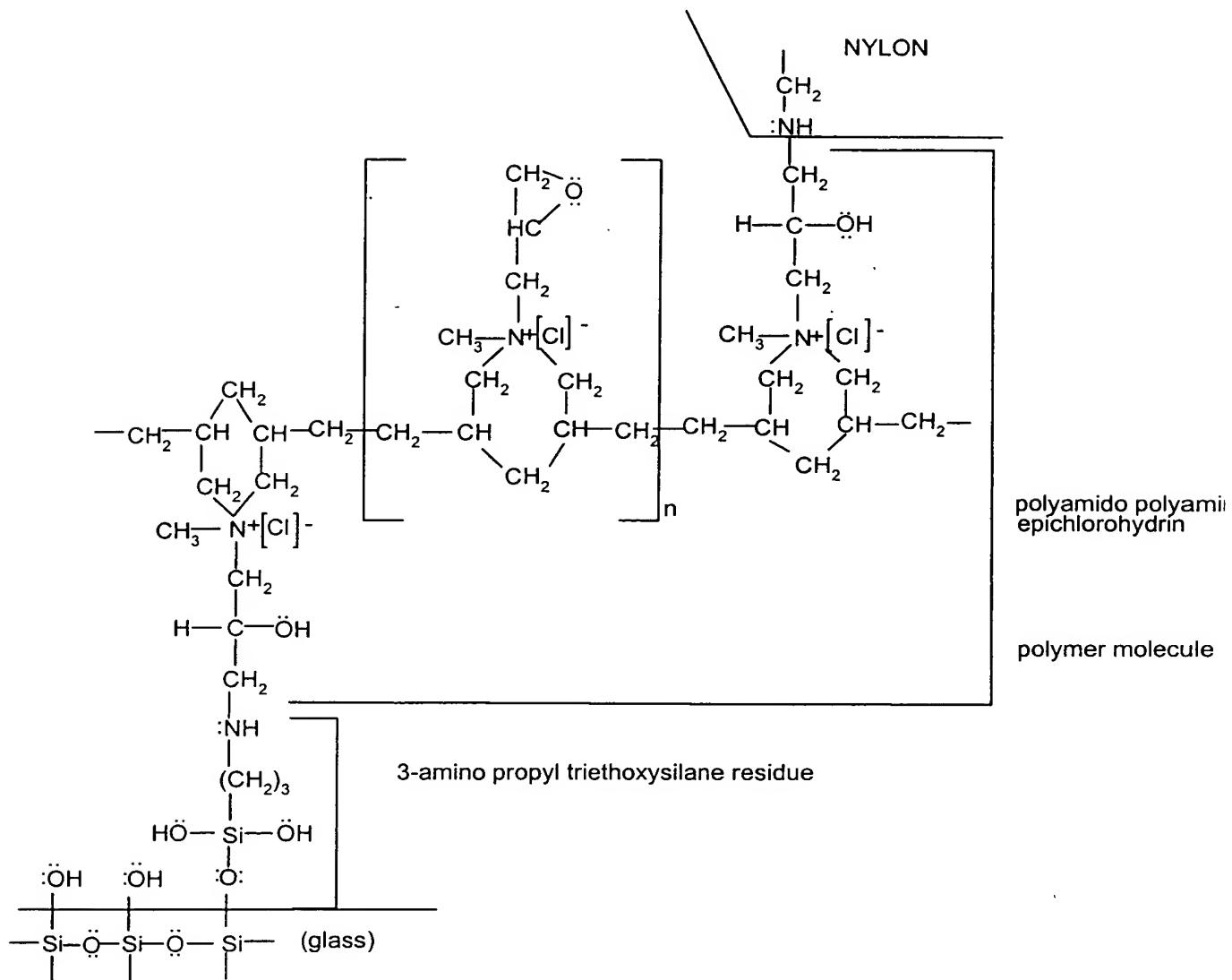
A: With an amine group



B: With a carboxyl group



**FIGURE 5A:** Bond using 3-Amino propyl triethoxysilane and polyamido polamine epichlorohydrin polymer.



**FIGURE 5B:** Bond using 10-carbomethoxy-decyl-dimethyl chlorosilane and polyamido polyamine epichlorohydrin polymer.

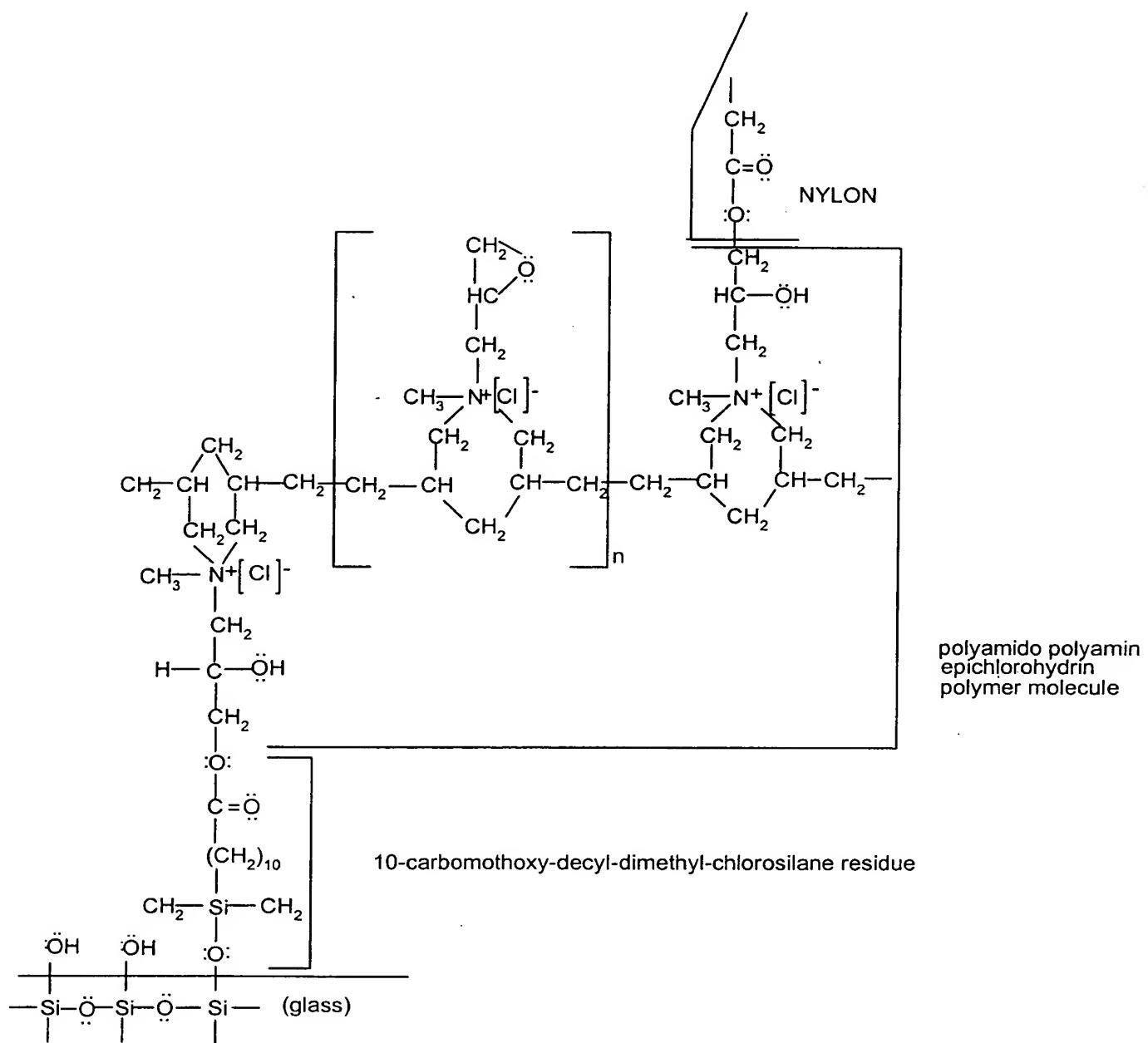
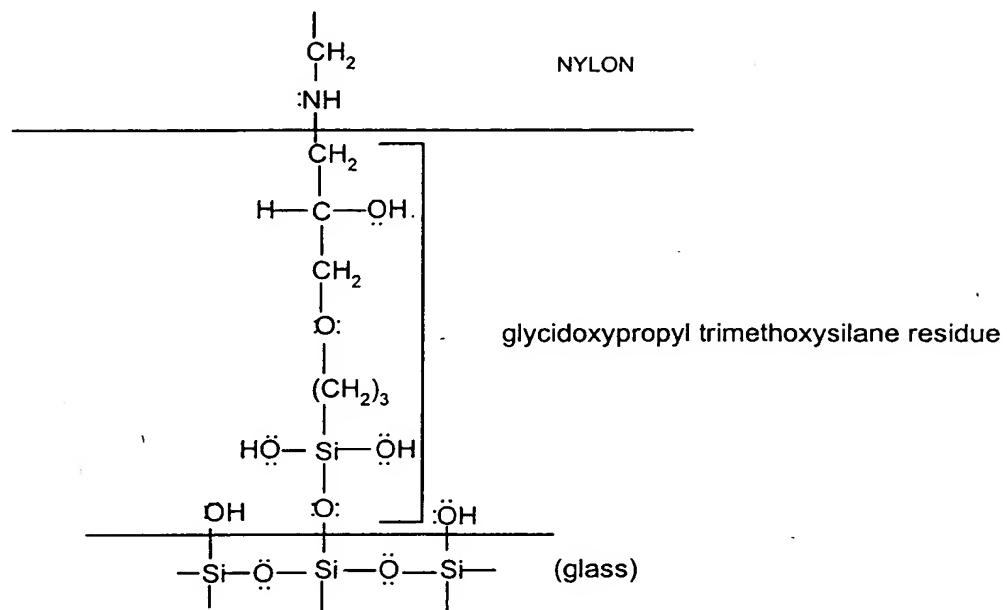
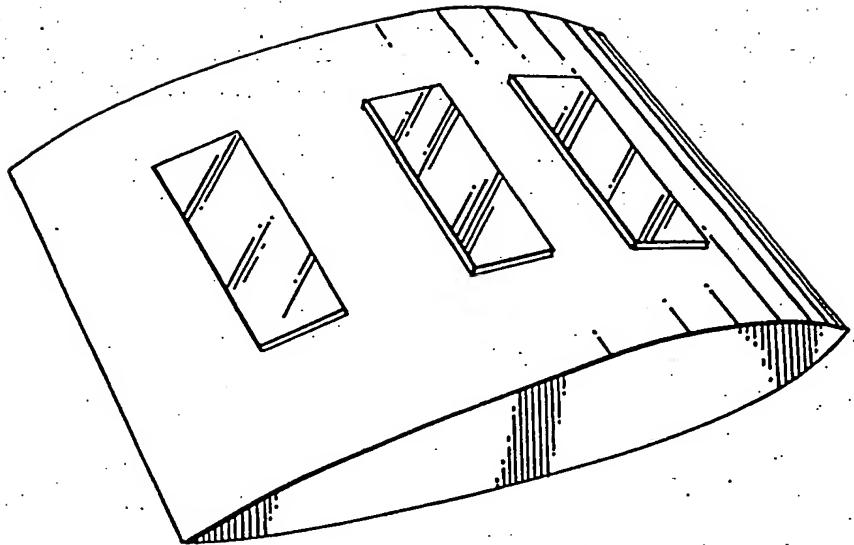
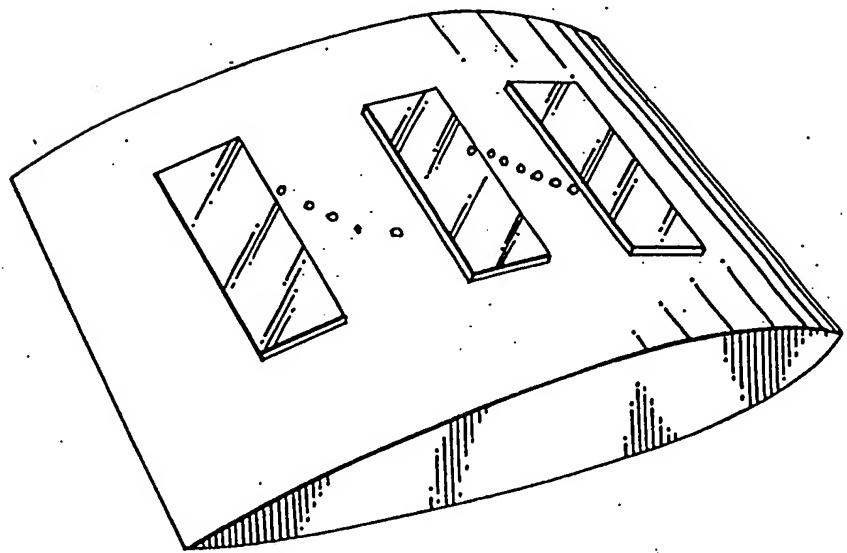


FIGURE 5C: Bond using glycidoxypipropyl trimethoxysilane



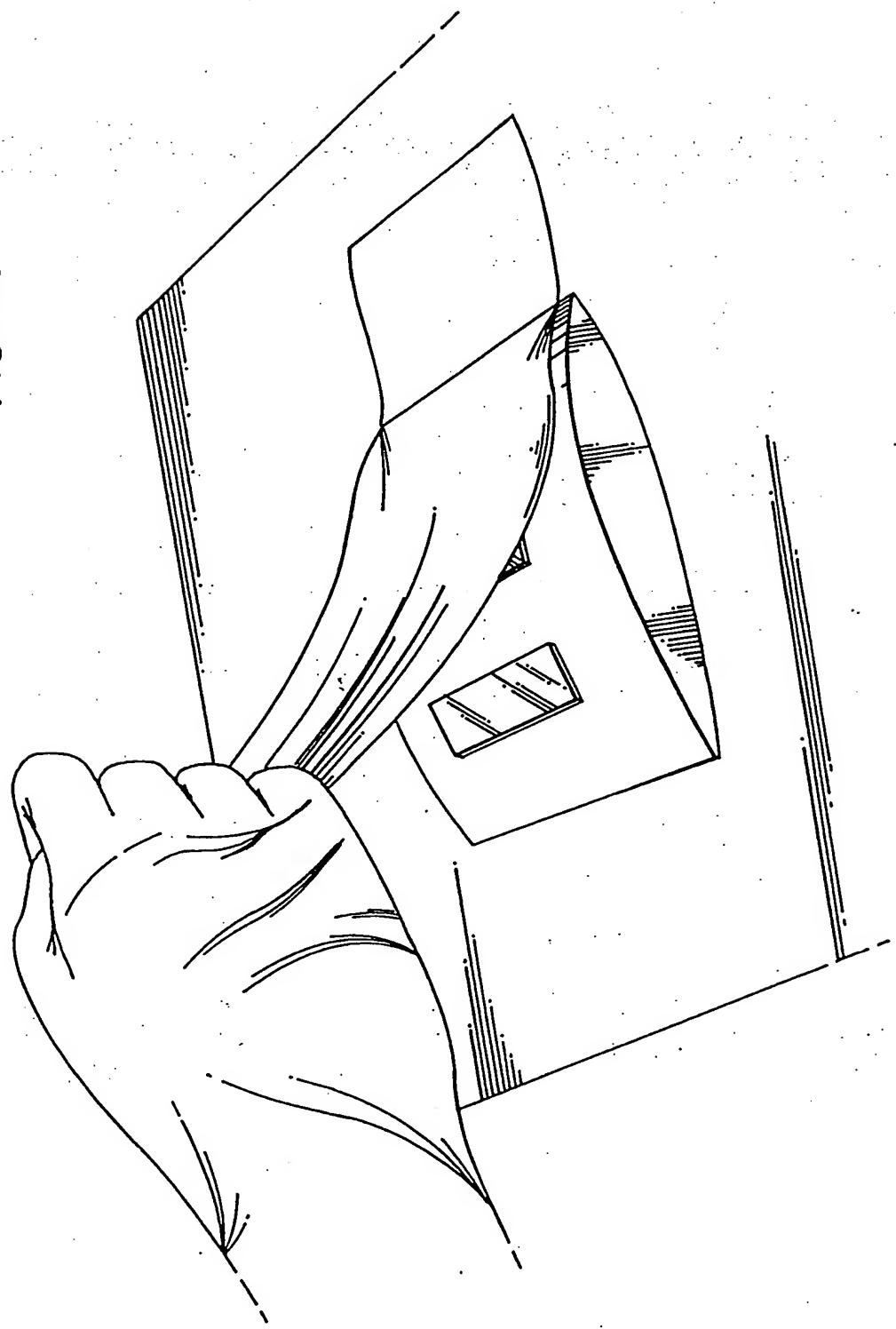


**FIG. 6A**

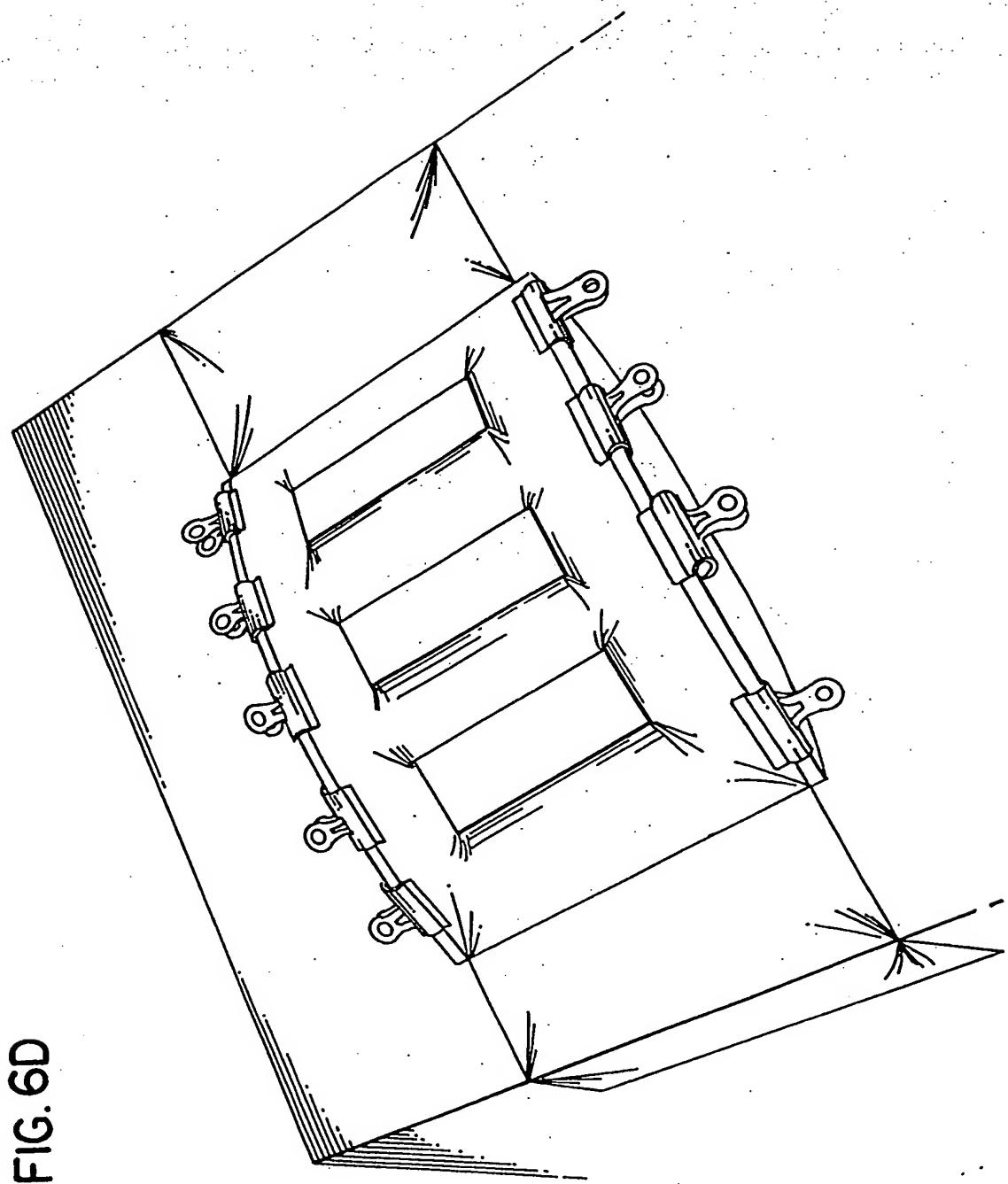


**FIG. 6B**

**FIG. 6C**



**FIG. 6D**



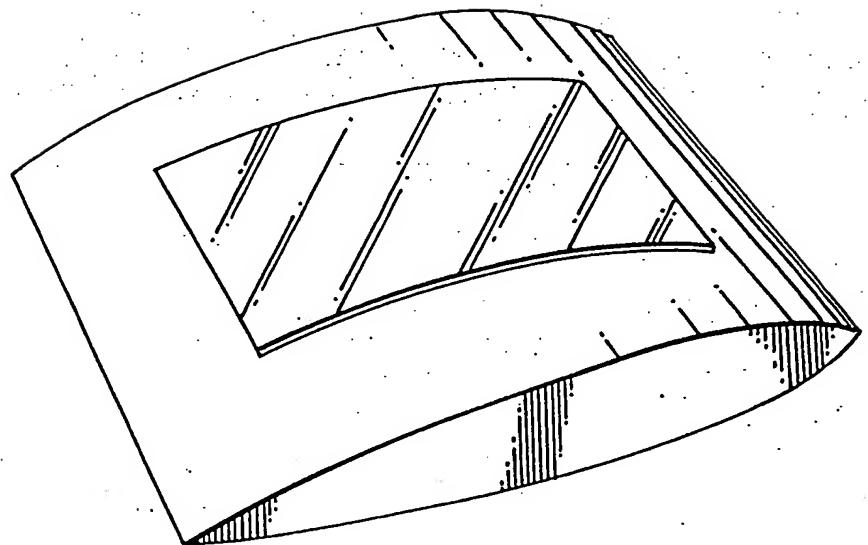


FIG. 7A

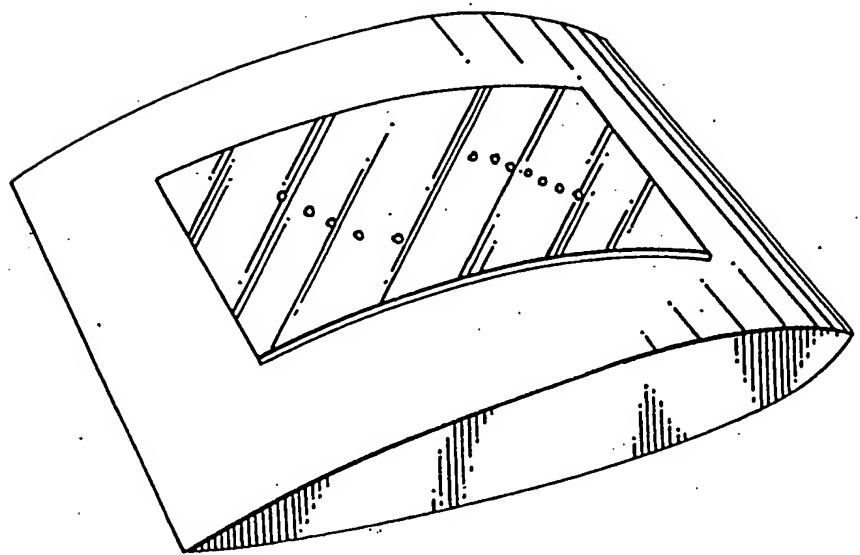
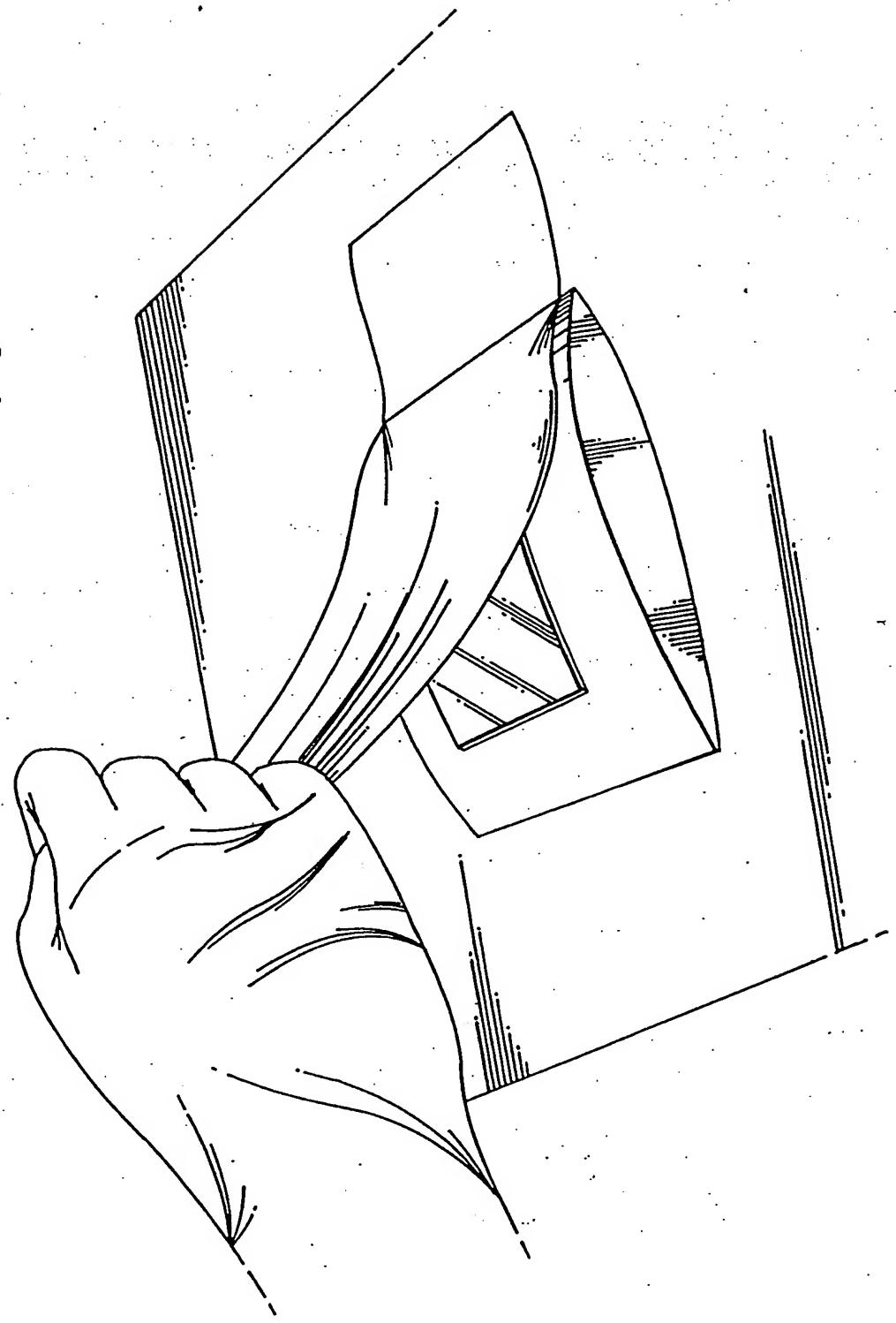


FIG. 7B

**FIG. 7C**



**FIG. 7D**

